Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurora Court, Suite 100
Naperville, Illinois 60563
(630) 355-5515

SOIL BORING LOG

PAGE 1 of 2
DATE 5/8/2008
LOGGED BY DR

JOB NUMBER P-91-186-08
GSI JOB No. 08015

ROUTE I-294 & I-57
DESCRIPTION I-57 & I-294 Interchange Improvements (PTB 146, Item 1)
SECTION –
LOCATION Kedzie Avenue Over I-57
COUNTY Cook
DRILLING METHOD Straight Flight/Rotary Wash
HAMMER TYPE CME Automatic

STRUCT. NO. 016-2126
Station –
BORING NO. I57-KED B-3
Station: 24+89 Kedzie Avenue
Offset: 45.5' Left
Ground Surface Elev. 610.3

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 599.3
Upon Completion n/a
After ___ Hrs. ___

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
16.0" ASPHALT	608.9				
CLAY-brown & gray-very stiff to hard (A-6) Fill			4		100
			4		
			5	4.4B	18
			5		
			28		
		-5	13	3.4B	15
	604.3				
CINDERS-black-medium dense (Fill)			8		
			9		
			11	NP	4
			4		
	600.8		5		
		-10	3	0.5P	53
ORGANIC CLAY-dark brown & gray (A-7) Wet	599.3				
			5		
SANDY LOAM-gray-loose (A-4)			4		
			5	NP	23
	597.3				
SAND-gray-loose (A-3)			1		
			3		
		-15	4	NP	24
	594.8				
SILTY LOAM-gray-loose (A-4)			3		
			3		
			4	NP	24
	592.3				
SAND-gray-medium dense (A-3)			7		
			13		
		-20	14	NP	17

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
SAND-gray-medium dense (A-3)	589.8				
SAND & GRAVEL-gray-medium dense (A-1)			9		
			8		
			11	NP	12
	587.3				
SAND-gray-medium dense to dense (A-3)			11		
			13		
		-25	15	NP	22
			9		
			13		
			14	NP	24
			7		
			15		
	580.3	-30	16	NP	23
FRACTURED ROCK with Clay-gray-dense to very dense (A-2)			43		
			43		
		-35	13	NP	13
	570.8		50/2"	NP	9
RUN 1 (-39.5' to -49.5')		-40	RUN 1		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS=Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

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SOIL BORING LOG

PAGE 2 of 2
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JOB NUMBER P-91-186-08
GSI JOB No. 08015

ROUTE I-294 & I-57
DESCRIPTION I-57 & I-294 Interchange Improvements (PTB 146, Item 1)
SECTION –
LOCATION Kedzie Avenue Over I-57
COUNTY Cook
DRILLING METHOD Straight Flight/Rotary Wash
HAMMER TYPE CME Automatic

STRUCT. NO. 016-2126
Station –
BORING NO. I57-KED B-3
Station: 24+89 Kedzie Avenue
Offset: 45.5' Left
Ground Surface Elev. 610.3

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 599.3
Upon Completion n/a
After ___ Hrs. ___

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Silurian System Niagaran Series Dolomite					
Light gray to gray with horizontal bedding. Fine grained with some varving. Horizontal fractures @ -40.1' & -40.2'. Horizontal fracture with 1.5" clay parting @ -41.0'. Horizontal fractures @ -41.3', -42.6' & -43.1'. horizontal fracture with 0.5" clay parting @ -43.5'. Horizontal fractures @ -46.0' & -48.1'.					
		-45	RUN 1		
Recovery = 96.5% R.Q.D. = 89.0% Core Time = 2.5 minutes/foot. 100.0% Water Loss.					
	560.8				
End Of Boring @ -49.5' Straight Flight Augers To -15.0' Rotary Drilling To Completion CME Automatic Hammer 15.0' 4.0"* Casing Used		-50			
		-55			
		-60			

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
		-65			
		-70			
		-75			
		-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS=Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

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ROCK CORE LOG

PAGE 1 of 1
DATE 5/8/2008
LOGGED BY DR

JOB NUMBER P-91-186-08
GSI JOB No. 08015

ROUTE I-294 & I-57
DESCRIPTION I-57 & I-294 Interchange Improvements (PTB 146, Item 1)
SECTION –
LOCATION Kedzie Avenue Over I-57
COUNTY Cook
CORING METHOD Rotary Wash

STRUCT. NO. 016-2126
Station –
BORING NO. I57-KED B-3
Station: 24+89 Kedzie Avenue
Offset: 45.5' Left
Ground Surface Elev. 610.3

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 570.8
Begin Core Elev. 570.8

Description	Elev.	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-39.5' to -49.5') Silurian System Niagaran Series Dolomite	570.8		1	96.5	89.0	2.5	1458@ -40.2'
Light gray to gray with horizontal bedding. Fine grained with some varving. Horizontal fractures @ -40.1' & -40.2'. Horizontal fracture with 1 ½" clay parting @ -41.0'. Horizontal fractures @ -41.3', -42.6' & -43.1'. horizontal fracture with ½" clay parting @ -43.5'. Horizontal fractures @ -46.0' & -48.1'. 100.0% Water Loss.		-44.5					
		-49.5					

Color pictures of the cores Yes Cores will be stored for examination for
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

TYLIN INTERNATIONAL	USER NAME =	DESIGNED - MDM	REVISED -
		CHECKED - CME	REVISED -
	PLOT SCALE =	DRAWN - SMM	REVISED -
	PLOT DATE = 5/5/2011	CHECKED - PDF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 3
STRUCTURE NO. 016-1196
SHEET NO. 35 OF 40 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1313.1B-1	COOK	162	96
		CONTRACT NO. 60K14		
	ILLINOIS	FED. AID PROJECT		

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